



PATENT  
Docket No. 400.00240101

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Sybille FRANK et al. ) Group Art Unit: 1731  
  )  
Serial No.: 10/049,665               ) Examiner: Carlos N. Lopez  
Confirmation No.: 4705                )  
  )  
Filed: 11 April 2002                )  
  )  
For: METHOD FOR PRODUCING A DENTAL PROSTHESIS

INFORMATION DISCLOSURE STATEMENT

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Pursuant to MPEP § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 forms is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 forms, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Applicants also wish to bring the Examiner's attention to any pending U.S. Application cited in the 1449 forms submitted herewith, as well as any documents, Office Actions that may include rejections of similar claims, and any provisional U.S. patent applications referenced in the pending U.S. applications or in their file wrappers.

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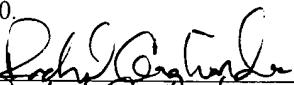
**Page 2 of 2**

Since this Information Disclosure Statement is submitted after the receipt of an Office Action in the above-identified patent application, Applicants authorize a charge to Deposit Account No. 13-4895 for the fee of \$180 under 37 C.F.R. §§1.97(c) and 1.17(p). Please charge any additional fees or credit any overpayment to Deposit Account No. 13-4895.

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

**CERTIFICATE UNDER 37 C.F.R. 1.10:**

The undersigned hereby certifies that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated below and is addressed to **Mail Stop Amendment**, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature: 

Name: Rachel G. Albin

"Express Mail" mailing label number:

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Date of Deposit: October 13, 2006

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October 13, 2006

Respectfully submitted

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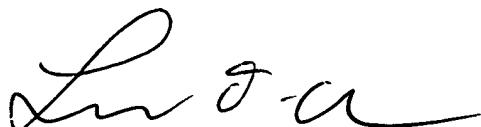
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	Application Filing Date: 11 April 2002	Group: 1731
	Information Disclosure Statement mailed: October <u>13</u> , 2006	

**U.S. PATENT DOCUMENTS**

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		4,615,678	10/07/1986	Moermann et al.			
		5,263,858	11/23/1993	Yoshida et al.			
		5,453,227	09/26/1995	Rieger			
		5,565,152	10/15/1996	Oden et al.			
		5,775,912	07/07/1998	Panzera et al.			
		5,824,089	10/20/1998	Rieger			
		6,454,568 B1	09/24/2002	Beuschel et al.			
		6,495,073 B2	12/17/2002	Bodenmiller et al.			
		2002/0125619 A1	09/12/2002	Bodenmiller et al.			
		2002/0182566 A1	12/05/2002	Beuschel et al.			
		2003/0031977 A1	02/13/2003	Bodenmiller et al.			
		2004/0119180 A1	06/24/2004	Frank et al.			

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	X	DE 42 07 179 A1	09/10/1992	Germany (English Language Abstract Included)				X
	X	DE 298 15 486 U1	02/10/2000	Germany (English Language Abstract Included)				X
	X	DE 199 04 522 A1	08/10/2000	Germany (English Language Abstract Included)				X
	X	DE 199 04 523 A1	08/10/2000	Germany (English Language Abstract Included)				X

**EXAMINER****Date Considered**

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	X	DE 199 38 144 A1	04/19/2001	Germany (English Language Abstract Included)				X
	X	DE 100 49 974 A1	04/11/2002	Germany (English Language Abstract Included )				X
	X	DE 199 3 144 C2	08/28/2003	Germany (English Language Abstract Included)				X
	X	EP 0 160 797 A1	11/13/1985	EPO (English Language Abstract Included)				X
	X	EP 0 160 797 B1	01/04/1989	EPO (English Language Abstract Included)				X
	X	EP 0 580 565 A2, A3	01/26/1994	EPO				
	X	EP 0 580 565 B1	08/26/1998	EPO				
	X	EP 0 630 622 B1	04/07/1999	EPO (English Language Abstract Included)				X
	X	EP 0 943 295 A1	09/22/1999	EPO (English Language Abstract Included)				X
	X	EP 0 943 296 A1	09/22/1999	EPO (English Language Abstract Included)				X
	X	EP 0 943 396 A1	09/22/1999	EPO (English Language Abstract Included)				X
	X	EP 0 982 009 A2, A3	03/01/2000	EPO (English Language Abstract Included)				X
	X	EP 0 774 933 B1	12/06/2000	EPO				

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	X	EP 0 624 360 B1	02/28/2001	EPO (English Language Abstract Included)				X
	X	EP 0 824 897 B1	07/25/2001	EPO				
	X	EP 0 943 396 B1	11/21/2001	EPO (English Language Abstract Included)				X
	X	EP 1 154 969 B1	05/14/2003	EPO (English Language Abstract Included)				X
	X	EP 1 067 880 B1	10/01/2003	EPO (English Language Abstract Included)				X
	X	EP 0 634 149 B1	12/03/2003	EPO (English Language Abstract Included)				X
	X	WO 96/29951 A2	10/03/1996	WIPO (English Language Abstract Included)				X
	X	WO 99/47065 A1	09/23/1999	WIPO (English Language Abstract Included)				X
	X	WO 00/46166 A1	08/10/2000	WIPO (English Language Abstract Included)				X
	X	WO 00/46168 A1	08/10/2000	WIPO (English Language Abstract Included)				X
	X	WO 00/62705 A1	10/26/2000	WIPO (English Language Abstract Included)				X
	X	WO 01/12097 A1	02/22/2001	WIPO (English Language Abstract Included)				X

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	X	WO 02/30361 A1	04/18/2002	WIPO (English Language Abstract Included)					X
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**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Copy Enclosed	Document Description
	X	"Abb. 5: Sicherheitsdatenblatt zu TZ-3YB-E der Leiferfirma Krahn Chemie von 1998," [Title in English: "Material Safety Data sheet for TZ-3YB-E of Krahn Chemie year 1998," Hamburg, Germany, 2 pages] (3 pages total).
	X	"Abb. 8: Vrekaufsstätigung von TZ-3YB und TZ-3YB-E von TOSOHvorn 14. August 1998 bei Krahn Chemie."(1 page). [Also included is the translation in English: Figure 8: Order Confirmation for TZ-3YB and TZ-3YB-E from August 14, 1998 by Krahn GmbH, Zurich, Switzerland (1 page)] (2 pages total).
	X	"Abb. 9: Lieferschein der Fa. Krahn über die Materialien TZ-3YB und TZ-3YB-E vom 17-August 1998." (1 page). [Also included is the translation in English: Figure 9: Packing slip for the materials TZ-3YB and TZ-3YB-E from August 17,1998. Krahn, Zurich, Switzerland (1 page)] (2 pages total).
	X	Bestimmung der Biaxialfestigkeit nach ISO 6872 (Anlage V and Anlage V-2) (2 pgs). [Also included is the translation in English, "Attachment V, Determination of biaxial strength according to ISO 6872," and "Attachment V-2, Determination of biaxial strength according to ISO 6872," (2 pages)] (4 pages total).
	X	Bestimmung der Biaxialfestigkeit nach ISO 6872 (Anlage W and Anlage W-2) (2 pgs). [Also included is the translation in English, "Attachment W, Determination of biaxial strength according to ISO 6872," and "Attachment W-2, Determination of biaxial strength according to ISO 6872," (2 pages total)] (4 pages total).
	X	Cales, "Colored Zirconia Ceramics for Dental Applications," <i>Bioceramics</i> , Vol. 11, Eds. R.Z. LeGeros and J. R. LeGeros, Proceedings of the 11 <sup>th</sup> International Symposium on Ceramics in Medicine, New York, NY USA, November 1998, World Scientific Publishing Co. Pte. Ltd., p. 138-141.
	X	Data Sheet of Tosoh: "Abb. 3: Typische Materialzusammensetzung von TZ-3YB, öffentlich zugängliches Datenblatt der Fa. Tosoh von May 1998," [Title in English: "Specification of Zirconia Powder Grades: TZ-3Y, 3YS, 3YB, 3YSB," May 1998.] Tokyo, Japan (1 page).

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	X	Data Sheet of Tosoh: "Abb. 4: Typische Materialzusammensetzung von TZ-3YB-E, öffentlich zugängliches Datenblatt der Fa. Tosoh (veröffentlicht 1998)," [Also included is the translation in English: "Specification of Zirconia Powder, Grades: TZ-3Y-E, 3YS-E, 3YB-E, 3YSB-E," June 1998,] Tokyo, Japan (1 page).
	X	Data Sheet of Tosoh: "Abb. 6: Materialzusammensetzung eines speziellen TZ-3YB Lots, öffentlich zugängliches Datenblatt der Fa. Tosoh," [Title in English: Properties of TOSOH-ZIRCONIA Powder, Grade: TZ-3YB] Yamaguchi-ken, Japan (1 page).
	X	Data Sheet of Tosoh: "Abb. 7: Materialzusammensetzung eines speziellen TZ-3YB-e Lots, öffentlich zugängliches Datenblatt der Fa. Tosoh," [Title in English: Certificate of Analysis for Commodity: Tosoh Zirconia Powder, Grade: TZ-3YB-E, Lot No.: Z301868B] Yamaguchi-Ken, Japan (1 page).
	X	DIN V ENV 843-3, "Hochleistungskeramik Monolithische Keramik, Mechanische Eigenschaften bei Raumtemperatur, Teil 3: Bestimmung der Parameter des unterkritischen Rißwachstums aus Biegefestigkeitsprüfungen mit konstanter Spannungsrate, Deutsche Fassung ENV 843-3:1996 [Advanced technical ceramics, Monolithic ceramics, Mechanical Properties at Room Temperature, Part 3: Determination of sub-critical crack growth parameters from constant stress rate flexural strength tests], European pre-standard, Deutsches Institut fuer Normung, Berlin, (15 pgs. total, in German) (15 pgs. total, translation in English) (November 1996).
	X	Eichner et al., "Zahnärztliche Werkstoffe und ihre Verarbeitung," Band 1, Grundlagen und Verarbeitung, 6., vollständig überarbeitete und erweiterte Auflage, Hüthig Verlag, Heidelberg, Germany, 1996, Two Title pages, Publication page, and p. 329-335 (10 pages total). [Also included is the translation in English, Eichner et al., "Dental Materials and Their Processing," Volume I: Principles and processing, 6 <sup>th</sup> completely revised and expanded edition, (10 pages)] (20 pages total).
	X	Geis-Gerstorfer et al., "Zum Einfluß der Prüfmethode auf die Biegefestigkeit von IPS-Empress und In-Ceram," 47, 1992, <i>Deutsche Zahnärztliche Zeitung</i> , pages 618-621. [Also included is the translation in English, Geis-Gerstorfer et al., "About the Influence of the Test Method on the Flexure Strength of IPS-Empress and In-Ceram," (6 pages)] (10 pages total).

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	X	Heinzelmann, "Spitzentechnologie für die dritten Zähne," STZ Technik Aktuell 12/98, pgs. 48-51. [Also included is the translation in English, Heinzelmann, "High Technology For the Third Set of Teeth," <i>Material Science</i> (5 pages)] (9 pages total).
	X	Hennicke et al., "Chemische Technologie, Band 3, Anorganische Technologie II, 4, Auflage, Winnacker, Kuchler, Eds., Carl Hanser Verlag, München, Germany, 1983, Title page, Abstract page, and pages 170-188 and 212-213. [Also included is the translation in English, Hennicke et al., Chemical Technology, Vol. 3, Anorganic Technology II, 4 <sup>th</sup> Edition (26 pages)] (49 pgs total).
	X	ISO 6872, "International Standard, Dental Ceramic", International Organization for Standardization Information Handling Services, Title page, Foreword page, Introduction page, pp. 1-10, Amendment 1 (Title page, Forward page, Amendment 1, and Publication page (December 1, 1997), and Corrected and Reprinted Amendment 1 (Title page, Forward page, Amendment 1, and Publication page (June 15, 1998) (September 1, 1995).
	X	Munz et al., "Mechanisches Verhalten keramischer Werkstoffe, Versagenablauf, Werkstoffauswahl, Dimensionierung" Springer-Verlag, Berlin, 1989, Title page, Publication page, and pp. 90-93 (4 pgs total in German). [Also included is the translation in English, Munz et al., "Material Research and Technology, Vol. 8, Mechanical Behavior of Ceramic Materials Failure Mode, Material Selection, Dimensioning" (5 pages)] (9 page total).
	X	Munz et al., "Mechanisches Verhalten keramischer Werkstoffe, Versagenablauf, Werkstoffauswahl, Dimensionierung," [Material Research and Technology, Vol. 8, Mechanical Behavior of Ceramic Materials Failure Mechanisms, material selection and design] Springer-Verlag, Berlin, Title pages (3 pgs), Publication page, and pp. 42-45 (8 pgs. total, in German) (5 pgs. total, translation in English) (1989).
	X	Product Information Brochure, "Tosoh Zirconia Powder "E" Grades," Tosoh Corporation, Japan, 1 pg. total (October, 1997).

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	X	Rieger, "Aluminum-und Zirkonoxidkeramik in der Medizin," [Aluminum and Zirconium Oxide Ceramics in Medicine] Biokeramik, Industrie Diamanten Rundschau, IDR 2/1993, pp. 116-120 (in German) (6 pgs. total, translation in English) (February, 1993).
	X	Tosoh Zirconia Powder, Technical Bulletin, TZ-3YB Technical Data, 1. Standard Heating Schedule, September 1996, Tokyo, Japan (1 page).
	X	Tosoh Zirconia Powder, Product Sheet, Tokyo, Japan, 09/96 (4 pgs).
	X	Tosoh Zirconia Powder "E" Grades, New Improved Zirconia Powder, 1997, Oct. 1997, Tosoh Europe B. V. Crown Bldg.-South Hullenbergweg 358, 1101 CP Amsterdam Z.O. The Netherlands, 1997 (1 page).
	X	Vergleichstabellen zu Herstellparametern und Rohbruchfestigkeiten (Anlage U and U-2). (2 pages) (Translation in English, "Attachment U," and "Attachment U-2," Test Results (2 pages)) (4 pages total).

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